Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2019-09-11-29** **Date: 30-05-2019**

Customer : Assistant Executive Engineer,Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Roads Next to Ayyappa Temple of Jakkur Layout in Ward No.07 and Improvements to Drains of Cross Roads of Jakkur Layout in Ward No.07, Byatarayanapura.

Agency : Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.

Customer's Reference : EE(Project)/Ynk Zone/WO/24/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-05-2019

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 28-05-2019

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.08	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	140 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
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CIVIL Pro Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 25-06-2019

Lab ID	:	**CP-2019-09-11-29**
Customer	:	Assistant Executive Engineer,Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Roads Next to Ayyappa Temple of Jakkur Layout in Ward No.07 and Improvements to Drains of Cross Roads of Jakkur Layout in Ward No.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	28-05-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.5N/mm^2	Not less than 53 N/mm^2

Note:
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R KARTHIK RECHAN
Authorized Signatory
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Bangalore

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-11-29** **Date: 30-05-2019**
Customer	:	Assistant Executive Engineer,Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Roads Next to Ayyappa Temple of Jakkur Layout in Ward No.07 and Improvements to Drains of Cross Roads of Jakkur Layout in Ward No.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/19-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-05-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7453	7667	51.1	48.9	30-70
4	10 mm	4267	11934	79.6	20.4	10-35
5	4.75 mm	2845	14779	98.5	1.5	0-5
6	Pan	221	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-11-29** **Date: 30-05-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.27	_

Note:
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Project Division
Yelahanka Zone
Bangalore

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-11-29** **Date: 30-05-2019**
Customer	:	Assistant Executive Engineer,Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Roads Next to Ayyappa Temple of Jakkur Layout in Ward No.07 and Improvements to Drains of Cross Roads of Jakkur Layout in Ward No.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/19-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-05-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7453	7667	51.1	48.9	30-70
4	10 mm	4267	11934	79.6	20.4	10-35
5	4.75 mm	2845	14779	98.5	1.5	0-5
6	Pan	221	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-11-29** **Date: 30-05-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.27	–

Note:
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Quality Manager

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Bangalore

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-11-29** **Date: 30-05-2019**
Customer	:	Assistant Executive Engineer,Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Roads Next to Ayyappa Temple of Jakkur Layout in Ward No.07 and Improvements to Drains of Cross Roads of Jakkur Layout in Ward No.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer Reference	:	EE(Project)/Ynk Zone/WO/24/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-05-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2643	2941	58.8	41.2	25-55
4	4.75 mm	1813	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-11-29** **Date: 30-05-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.44	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.38	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-09-11-29** **Date: 30-05-2019**

Customer : Assistant Executive Engineer,Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains of Roads Next to Ayyappa Temple of Jakkur Layout in Ward No.07 and Improvements to Drains of Cross Roads of Jakkur Layout in Ward No.07, Byatarayanapura.

Agency : Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.

Customer's Reference : EE(Project)/Ynk Zone/WO/24/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-05-2019

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 27-05-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	54	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	237	319	31.9	68.1	30-70	55-90	75-100	90-100
5	600 micron	205	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	203	727	72.7	27.3	5-20	8-30	12-40	15-50
7	150 micron	193	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-09-11-29**

Date: 30-05-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.51	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE

Asst. Executive Engineer
Project Division
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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-09-11-29** **Date: 30-05-2019**
Customer	:	Assistant Executive Engineer,Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Roads Next to Ayyappa Temple of Jakkur Layout in Ward No.07 and Improvements to Drains of Cross Roads of Jakkur Layout in Ward No.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-2019
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-05-2019

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/06/2019

Lab ID	:	**CP-2019-09-11-29**
Customer	:	Assistant Executive Engineer,Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Roads Next to Ayyappa Temple of Jakkur Layout in Ward No.07 and Improvements to Drains of Cross Roads of Jakkur Layout in Ward No.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-06-2019
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/06/2019	10/06/2019	149.44 X 149.99 X 150.48	22415	**8.029**	270.9	12.1	12.2
2	PCC	M15	03/06/2019	10/06/2019	149.91 X 149.16 X 151.92	22361	**8.194**	278.6	12.5	
3	PCC	M15	03/06/2019	10/06/2019	150.64 X 151.52 X 150.04	22825	**8.324**	278.3	12.2	

Note:
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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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R KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/06/2019

Lab ID	:	**CP-2019-09-11-29**
Customer	:	Assistant Executive Engineer,Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Roads Next to Ayyappa Temple of Jakkur Layout in Ward No.07 and Improvements to Drains of Cross Roads of Jakkur Layout in Ward No.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-06-2019
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 14 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/06/2019	17/06/2019	151.76 X 149.39 X 151.16	22671	**8.029**	273.1	12.0	14.8
2	PCC	M15	03/06/2019	17/06/2019	149.89 X 149.87 X 150.67	22463	**8.194**	280.0	12.5	
3	PCC	M15	03/06/2019	17/06/2019	151.84 X 149.38 X 149.27	22681	**8.324**	291.2	12.8	

Note:
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R KARTHIK RECHAN
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Quality Manager

AE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/07/2019

Lab ID	:	**CP-2019-09-11-29**
Customer	:	Assistant Executive Engineer,Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains of Roads Next to Ayyappa Temple of Jakkur Layout in Ward No.07 and Improvements to Drains of Cross Roads of Jakkur Layout in Ward No.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/24/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-06-2019
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/06/2019	01/07/2019	151.52 X 150.86 X 151.87	22859	**8.036**	393.4	17.2	17.2
2	PCC	M15	03/06/2019	01/07/2019	151.93 X 149.72 X 149.14	22747	**8.756**	393.1	17.3	
3	PCC	M15	03/06/2019	01/07/2019	149.78 X 150.47 X 149.58	22537	**8.805**	383.5	17.0	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

DE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

****End of Report****

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